

## Semiconductor Physics And Devices Manual

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3.44? 2nd point:  $a = 4$ ? Then  $E_7 = 17.799 \text{ eV}$   $E_8 = 24.066 \text{ eV}$  so  $E = 6.27 \text{ eV}$   $3.10 \cdot 6 \sin \cos \cos ? ? ?$   
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From  $E_c - E_F = kT \ln [N_C / (N_D - N_A)]$  which can be rewritten as  $N_D - N_A = N_C \exp [-(E_c - E_F) / kT]$  Then  $N_D - N_A = 2.86 \times 10^{19} \exp(-0.20 / 0.0259) = 1.26 \times 10^{16} \text{ cm}^{-3}$  or  $N_D = 1.26 \times 10^{16} + N_A = 2.26 \times 10^{16} \text{ cm}^{-3}$  A compensated semiconductor can be fabricated to provide a specific Fermi energy level.

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